

Name : **Dr.Yarlagadda Padma Sai**

Designation: Professor-ECE & Dean Students Progression

Department: Electronics and Communication Engineering

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deanstudentprogression@vnrvjiet.in

Experience (in years): Teaching: 25 years, Research: 15 years,

Others (If any, Specify): Industry-6 years.



1. Educational/ Technical Qualifications

S. No	Level (UG / PG / Ph. D)	Year of Passing	Specialization
1	Ph. D	2009	ECE (Bio-Medical Signal Processing)
2	M.E.	1998	Systems and Signal Processing
3	B. Tech.	1989	ECE

2. Teaching and Learning

- 2.1. Teaching Interests: Signals and Systems, Digital Signal processing, Analog Communications, Digital Communications, - Satellite Communications, - Digital Image Processing - DSP Processors and Architectures, Advanced Digital Signal processing- Image and Video Processing and VLSI Signal Processing
- 2.2. Novel Teaching & Learning Techniques adopted: WIT & WIL, LBD, Project based learning.
- 2.3. Involvement in curriculum updating / Design: Actively involved in the designing of Course Structure and Syllabus since the college has attained autonomy. Involved in Preparation of PEOs, POs and COs

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

- Networking and Social Service
- Finding the industry partners and establishing rapport between institute and industry partners and active involvement in the execution of projects
- Closely working with Professional Societies/ Chapters

3.2. CCA/ECA Organized:

- Taking care of smooth conduction of National Level Technical Fest Convergence organized by all professional chapters of VNRVJIET from 2000 onwards to till date.
- Organized and attended various Professional development programs at the institute and also at IEEE Hyderabad Section.
- As a Dean Student Progression from April 2016 has taken responsibility to organize various events at the Institute (National Technical Fest Convergence, Cultural Fest Sintillashunz, Sports Fest, etc)
- Under my chairmanship of ISTE, Institute received various National /State level awards like ISTE Best Chapter Award, Best Teacher, Best Principal, Best Student, Best Project, Best Innovator & Best Engineering College awards
- As a Active volunteer of IEEE, Received Various awards from IEEE Hyderabad Section, R10 Region, India Council and IEEE

3.3. CCA/ECA participated:

- Graduated 2021 IEEE Program on Volunteer Leadership Training (VOLT)
- Senior Member IEEE
- Fellow of IETE
- Fellow of IEI
- Life member of Indian Society for Technical Education (ISTE)
- Life member of Instrumentation Society of India (ISOI)
- Life Member ASIC Association
- Initiated to start IETE Student forum in 2010 and Institute Membership of IETE
- Executive Member ISTE AP Section for 2012-2014
- Member Short term training program committee IETE Hyderabad-2012-2014
- Initiated to start IUCEE consortium membership in 2014.
- Member Women Empowerment in Engineering IETE Hyderabad Centre for 2014-16
- Faculty advisor for Student chapter of IETE from 2010 to 2018
- Vice-Chair, WIE Affinity Group IEEE Hyderabad Section 2019
- Secretary cum Treasure ISTE Telangana Section 2015-2019
- Branch Counsellor of IEEE Student Branch from 2015- 2020
- Chair, ISTE Faculty Chapter, Faculty Advisor for Student chapter of ISTE for 2008 - 2022 Member
- Member, Advisory Committee IETE Hyderabad Centre 2020-2022
- Chair, WIE Affinity Group IEEE Hyderabad Section 2020 to June 2022
- Secretary, SPS IEEE Hyderabad Section from June 2022 to Till date.

3.4. Counselling and Mentoring Activity:

- Counselling the needy students and monitoring their progress

3.5. Committees involved in:

- Reviewer for ICETE2023
- Reviewer for 2023 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)
- Program committee member / Reviewer of "4th International Conference on Big Data, Machine Learning and IoT (BMLI 2023)" to be held in August 26 - 27, 2023, Dubai, UAE
- General Chair IEEE ICMACC-2022
- Reviewer for BIOMESIP-2021
- Reviewer of Elsevier journal on Computer Methods and Programs in Biomedicine 2021
- Acted as session chair for the 8th International Conference on Computing, Communications and Sensor Networks (CCSN 2020) held at Institute of Aeronautical Engineering College during October 19-20, 2019.
- Acted as jury member for 3rd edition of IIA International Innovation Fair (IIF) organized in NSIC exhibition hall on 01-12-2019, Hyderabad.
- Reviewer for 2019 IEEE Asia Pacific Conference on Circuits and Systems, Sep 20, 2019

- Reviewer for Biomedical Circuits and Systems Conference (BIOCAS 2019), October 19, 2019
- Attended as a BoS Member for Joint Boards of Studies Meetings, JNTUH, 25th & 26th June 2019
- Program Chair, 7th IEEE International Advance Computing Conference (IACC-2017)
- Department level:
 1. Chairman BoS from 2012 to 2021
 2. Member BoS (2 years 2010-12) & 2022 to till date.
 3. Member Department Development Committee
 4. Member Department Academic Committee
- Institute Level:
 - Member Academic Council
 - Member Research Committee
 - IQAC Member
 - Member of Institute Academic Committee from 2008 to till date.
 - Project Coordinator for M/S. Ananth Technologies Ltd.- 2009 – Till Date
 - Coordinator -IIPC (2010-2013)
 - Member Canteen and Library committee -2008-2013

4. Awards / Honors received:

- Received Best College for Cocurricular Activates during the PROST event at LB Stadium conducted by stumagz and TSIC on 12th March 2023.
- Completed “IUCEE Professional Ethics in Engineering” course with distinction conducted by experts from INDO universal collaboration for engineering education (IUCEE) from Feb - Apr 2023
- Received Anna University National Award for the Outstanding Academic Teacher award on 28-09-2021 by ISTE National/Regional Faculty Awards 2020 during Award Distribution Ceremony held at Y.B. Chavan Centre, Mumbai
- Received IEEE India council Outstanding Women in Engineering Volunteer award on 10th December 2021 at IIT Guwahati
- Graduated in 2021 IEEE Volunteer leadership Training Programme.
- Salcit Technologies is one of 3 finalists at the 11th Aegis Graham Bell award 2020 in the category of Combat COVID-19 with Artificial Intelligence
- Received outstanding Branch Councillor award from IEEE Hyderabad Section during AGM on 24th January 2021
- As a Branch councillor WIE AG VNRVJIET received 2021 IEEE R10 Women in Engineering Outstanding Student Branch Affinity Group Award in recognition and appreciation of valued services and contributions.
- Received Best WIE Affinity Group award for IEEE WIE Hyderabad section as Vice-Chair on 19-01-2020 from IEEE Hyderabad Section
- Received IEEE VNRVJIET Student Branch as “Vibrant Student Branch Award” on 10th Aug.2019 as branch councillor from IEEE Hyderabad Section
- As a Chair WIE AG received 2020 IEEE R10 Women in Engineering Outstanding Section Affinity Group Award: IEEE Hyderabad Section WIE Affinity Group in recognition and appreciation of valuable services and contributions.

- Online Certification on Neural Networks and Deep Learning (4 Weeks) from Coursera
- Online Certification on AI for Medical Diagnosis from Coursera
- Certification from NPTEL 8-week course on VLSI Signal Processing Feb-Apr 2020
- Got ELITE and Topper of 5% in this course for the 12 week course on “Introduction to Machine Learning” conducted by NPTEL during Jan-April 2018.
- Got ELITE for the 12-week course on “Deep Learning” conducted by NPTEL during June - Oct 2018.
- Received “Uthama Acharya Puraskar” National Award for impact creators in Engineering Education in commemoration 150th of Birth Anniversary Celebrations of Mahatma Gandhi by Indian Servers at VR Siddhartha Engineering College, Vijayawada on 02-10-2019
- Received Professor of the year (Bio-Medical) from Ideal Teaching Awards program ITAP-2018 on 02-10-2018 at Hotel Trident(Ball Room), Hitech City, Hyderabad
- Received the Best Engineering College Teacher, award from ISTE A.P and T.S section during 10th ISTE AP&TS Section Annual Convention and Awards Function- 2015 held at Kurnool on 29th December 2015.
- Received Silver Medal for the project Cough and Wheeze Analyzer from IT Minister Mr.N.Lokesh Indian at Innovators Association, AP & Innovation Society and International Innovation Fair Association held at Vishakhapatnam
- Bronze medal from China Association of Inventions to Sri S.V.N. Narayana Rao, Dr.Y.Padma Sai, V.Naveen Kumar & M.Baswa Raj (III.CSE student) for their innovation `Cough and wheeze analyser for respiratory digital health services'
- Received BIRAC BIG grant for Salcit Technologies Pvt Ltd incubator of VJ HUB, project titled Digital Health Advisory System for Chronic Respiratory Diseases
- Awarded Gold Medal by Korean Intellectual Property Office (KIPO) &Korea International Women Invention Exposition (KIWIE-2019) as women entrepreneur of Salcit Technologies Private Limited, 23-06-2019
- Special prize for creative invention Yongmaan park,Chiramn of the Korea Chamber of Commerce and Industry, Korea ,23-06-2019
- One of the recommended candidates for Research award for the academic year 2014-16 by UGC, New Delhi
- Short listed for Research Award (2012-14) by University Grants Commission 9th Oct.2013
- 2 Out of 6 ideas are selected for Seoul international invention Fair-2016.
- Received certificate from United Inventors Association of the USA for innovative Excellence for “CSA-BOT, A Device for Cognitive Status Assessment”.

5. Conference / Workshop / Seminar / Guest Lectures:

5.1. Conducted : 130

- As a Program Chair Successfully Organized IEEE WIE ILS 2022 during 26th -27th August 2022 at Mari Gold Hotel, Hyderabad
Arranged 4 Special Tracks, Generated funds for smooth conduct of the event and received funds as mentioned below:
IEEE ILS \$1,500, IEEE R10 \$400, IEEE SIGHT \$2,000 and IEEE CS \$2,000

Seven Trust Rs. 3,54,000/-, Service Now Rs. 2,00,000/- and LIET – Rs. 29,500/-
<https://attend.ieee.org/wieils-hyd-2022/>

- As a General Chair successfully Organized IEEE International Conference on Recent Trends in Microelectronics, Automation, Computing and Communication Systems (ICMACC-22) during 28th –30th December 2022 and published proceedings in Xplore.
<https://ieee-icmacc.org/>
- Number of Technical Sessions, Keynote addresses, Panel Discussions and Poster Presentations were conducted as a part of below events:
 1. Received \$5K as a General Chair successfully Organized IEEE SPS Summer School on IOT for Biomedical and Healthcare Applications during 28th –31st December 2020, VNRVJIET SB in association with SPS & WIE AG IEEE Hyderabad Section.
<https://sps2020.ieee-icmacc.org/>
 2. Received \$3,000 as a General Chair successfully conducted IEEE SPS Hybrid Seasonal School on Recent Advances in Artificial Intelligence for Signal Processing during 28th -31th December 2021, VNRVJIET SB in association with SPS & WIE AG IEEE Hyderabad Section.
<https://sps2021.ieee-icmacc.org/>
 3. Received \$5000 as a General Chair successfully conducted IEEE SPS SB Initiative on Latest Trends in Machine Learning for Signal Processing Applications during 10th –12th August 2022, VNRVJIET SB in association with IIIT Hyderabad, SPS & WIE AG, IEEE Hyderabad Section.
<https://sps2022.ieee-icmacc.org/>
- Received \$3350 as a General Chair successfully conducted IEEE Summer School on Nanotechnology Training on Fabrication and Characterization of Nanomaterials during 16th - 19th November 2022, VNRVJIET SB in association with R10YP & NTC IEEE Hyderabad Section
<https://r10.ieee.org/nano-yp/summer>

5.2 Attended : 146 Workshops ,Professional development programs, events.

6. Academic Contribution and Research & Consultancy:

6.1. Invited Lectures:

- Resource Person for 3-Day FDP, J.B.R Engineering College, 05-07-20.
- Speaker and attended the Second Engineering, Medicine, Biology, and Healthcare Research and Innovation Colloquium organised by IEEE Bangladesh Section on 9th June, Wednesday, 5.30 PM to 9.30 PM.
- A webinar on "Overview of Image Processing" to IEEE MVSR WIE AG on May 8, 2020.
- Delivered Talk on Career Planning & Entrepreneurship for women students at KL Women & Forum in association with WIE, KLEF on 24-09-2020.
- Organised and guest for All Hyderabad Women in Engineering Student Congress 2020 held at Geethanjali college of Engineering and Technology on 05-03-2020.

- Chief Guest for inaugural of ONE WEEK AICTE & ISTE Sponsored Refresher FDP on “Research Methodology: Tools & Techniques” From 14.12.2020-19.12.2020 Organized By Dept.of ECE, DNR College Of Engineering & Technology, Bhimavaram .
- Chief Guest for Inaugural of IEEE WIE SVCE Student Branch, SV College of Engineering, Tirupati on 12-02-2021 @ 10.00 AM through online.
- Delivered guest lecture on Epilepsy detection using wavelet transforms on 11th September, 2009 at Bio-Medical Department, College of Engineering, OU Campus, Hyderabad.
- Delivered a lecture on the occasion of 2-day Short-Term Course on “Image Processing and Current Trends” at IETE centre, OU Campus, Hyderabad during 12- 13th SEP. 2009, on Image Compression Techniques 13th Sep.2009
- Delivered a lecture on the occasion of 2-day workshop on Image Processing and Current Trends during 21-22 August 2010, BITS-Pilani, Hyderabad Campus on Image Compression Techniques on 22nd August, 2010.
- Delivered a lecture on the occasion of 2-day Short-Term Course on “Image Processing and Current Trends” at IETE centre, OU Campus, Hyderabad during 19th and 20th February, 2011 on Image Compression Redundancies and their removal method on 20th Feb.2011
- Delivered a Lecture on “Overview of communications” at Malla Reddy engineering college 20th February 2012.
- Delivered Lectures at VNRVJIET In various FDPs/Workshops
- Delivered Lectures at university of Hyderabad for post graduate Diploma in Telecommunications for the subject Digital signal processing in Telecommunications during 30th Sep-3rd Oct.2013
- Delivered classes at University of Hyderabad to the contact program for the Post graduate diploma in Telecommunication (PGDTC), which is scheduled during 12 – 18 Sep. 2014. And delivered six lectures (each of 90 minutes) for the course No DTC-413(Digital Signal Processing) to the participants. The following topics are covered Block- 1: Signals and Systems, Block-2: Z- Transforms and Discrete Time Fourier Transform Block-3: Digital Filters
- Delivered Lecture on Role of Wavelet Transforms in Bio-Medical Signal processing on 25th Sep. 2014 sponsored by UGC, New Delhi, one-week Short Term Course on “Wavelets and its applications” organized by the UGC-Academic Staff College, JNTU Hyderabad during 22-09- 2014 to 27-09-2014.
- Delivered a talk on Internet of Things (one session) on 10th June, 2015, for ISTE Supported one Week Short Term Training Program on Internet & Digital Convergence in India-Crafting the Future Organized by Methodist College of Engineering and Technology, Abids, Hyderabad during 10-14th June 2015
- Delivered a lecture on Image compression on 7th Jan. 2016 (11.00 AM-12.30 PM), 5-Day FDP on Digital Image & Video Processing held during 4th to 8th January 2016 at MVSR Engineering College.

- Delivered 2 Lectures during Faculty Development Program on “Recent trends in Signal Processing and Its Applications”, organized by Dept. of ECE, VNRVJIET in collaboration with Electronics & ICT Academy, NIT, Warangal during 22nd June to 1st July, 2017 Resource Person for 3-Day FDP, J.B.R Engineering College, 05-07-20
- Webinar on “Overview of Image Processing” to IEEE MVSR WIE AG on May 8, 2020

6.2 Articles/Chapters published in Books

- G.Vijaya Kumar, Y.Padma Sai, Padma Raju K “Extraction of Wavelet Features for the Classification of Sleep Stages Using Single Channel EEG” Recent Developments in Engineering Research, Book Publisher International, Vol-2 .Indexing: Google Scholar
- Discrete Wavelet Transform Implementation on TMS320c6713 Jointly Published by IEEE and Narosa Publishing Home, 2012, pp 236-240.
- ECG Signal Pre-processing based on Empirical Mode Decomposition, International Conference on Microelectronics Electromagnetics and Telecommunication (ICMEET-2015), 18th - 19th December 2015. Published by Springer India in Lecture Notes in Electrical Engineering 372, DOI 10.1007/978-81-322-2728-1_64, 673-779
- FPGA Based Arrhythmia Detection, 3rd International Conference on Recent trends in Computing-2015 (ICRTC)-2015, Published by Elsevier B.V in Procedia Computer Science Aug.2015, Vol.57, pp. 970 – 979 (Available online at www.sciencedirect.com), Aug.2015, DOI:10.1016/j.procs.2015.07.495.
- Design of Low-Power Binary Content Addressable Memory for Future Nanotechnologies, Microelectronics, Electromagnetics and Telecommunications Proceedings of ICMEET 2017 published in Lecture Notes in Electrical Engineering, Springer, volume-471, PP 343-348 with ISBN 978-981-10-7328-1 ISBN (eBook) 978-981-10-7329-8
- Design and implementation of low-power MIL-STD-1553B bus controller, Lecture Notes in Electrical Engineering Volume 434, 2018, Pages 183-189, 2nd International Conference on Micro-Electronics, Electromagnetics and Telecommunications, ICMEET 2016; Visakhapatnam; India; 6 January 2017 through 7 January 2017; Code 197979
- Pradeep Kumar, Subodh Srivastava, Y. Padma Sai, “Basic Understanding of Medical Image Processing”, AAP (Apple Academic Press), Taylor and Francis Group Publisher, 02-05-2020
- Vijaya Kumar. G, Padma Sai Y, Padma Raju K, “Extraction of Wavelet Features for the Classification of Sleep Stages using Single Channel EEG”, BOOK-CHAPTER-Recent Developments in Engineering Research ,Book Publisher International Aug 2020 PP-150-156, 978-93-90149-19-3, Print ISBN: 978-93-90206-87-2, eBook ISBN: 978-93-90206-88-9 DOI: 10.9734/bpi/rder/v2.
- Gurralla, V.K., Padma Sai, Y., Karennagari, N., Yashwanth Reddy, K. (2022). Speech Processed Public Addressing System. In: Kumar Jain, P., Nath Singh, Y., Gollapalli, R.P., Singh, S.P. (eds) Advances in Signal Processing and Communication Engineering. Lecture Notes in Electrical Engineering, vol 929. Springer, Singapore. https://doi.org/10.1007/978-981-19-5550-1_21.

6.3. Books published as author or as editor

- Dr. V. Priyanka Brahmaiah, Dr. Y. Padma Sai Published a book titled," Detection of Epileptic Seizure in Early stage: Using Electrooculogram Signals" in LAP LAMBERT Academic Publishing on January 4, 2022 with ISBN-10 : 6204734946, ISBN-13 : 978-6204734941.
- IEEE ICMACC-2022 Proceedings
- 7th IEEE International Advance Computing Conference (IACC-2017) proceedings with ISBN No: 978-93-5267-908-9
- 7th IEEE International Advance Computing Conference (IACC-2017) Proceedings

6.4. Research Interests:

- Bio-Medical, Signal and Image Processing, Wavelet Transforms, AI,ML & DL

6.5. Research Guidance:

1. No. B. Tech Batches Guided: 40 Batches.

2. No. M. Tech Projects Guided: 35 Students

3. No. of Scholars Awarded Ph. D: 06

- Dr. L.V. Rajani Kumari-Asst. Professor has awarded the Ph.D. by JNTUH, Hyderabad for a thesis on "Detection & Classification of Arrhythmia Beats from ECG Signals" Under the Guidance of Dr. Y. Padma Sai and Dr. N. Balaji on 08-07-2020.
- Dr. Priyanka Veeramosu Brahmaiah-Asst. Professor has awarded the Ph.D. by JNTUA, Anantapur for a thesis on "Detection Of Epileptic Seizure In Early Stage Using Electrooculogram Signals" Under the Guidance of Dr. Y. Padma Sai and Dr. M. N. Giri Prasad on 13-08-2021.
- Dr. G. Surekha- Associate Professor has awarded the Ph.D. by JNTUH, Hyderabad for a thesis on "Leakage Power Reduction Techniques for Memory Elements" Under the guidance of Dr. Y. Padma Sai and Dr. Dr. N. Balaji on 12-01-2022.
- Dr. Nageshwar Voruganti- Associate Professor has awarded the Ph.D. by JNTUH, Hyderabad for a thesis on "Prediction and Classification of EEG for Epilepsy Detection" Under the guidance of Dr. Y. Padma Sai and Dr. K. Subba Rao on 16-05-2022.
- Dr. Pradeep Kumar- Assistant Professor has awarded the Ph.D. by NIT Patna for a thesis on "Deep Learning based Multi-Modal Computer- Aided Diagnostic System for Breast Cancer Detection and Localization from Breast Medical Images" Under the guidance of Dr. Subodh Srivastava and Dr. Y. Padma Sai on 23-07-2022.
- Dr. G. Vijay Kumar- Assistant Professor has awarded the Ph.D. by JNTUK, Kakinada for a thesis on "Analysis and Detection of disorders of Humans in Sleep Stages" Under the guidance of Dr. Y. Padma Sai and Dr. K. Padma Raju on 06-09-2022.

6.5.1. Ph. D Scholars Presently Working:

Supervisor:

S.No.	Name of the Research Scholar	Area of the work	Year of Registration	Registered University /Institute
1	Mohebbanaaz	An Inference Engine to detect cardiac arrhythmia from ECG signals	2019	JNTUH(NDF) (Thesis Submitted)

Co-Supervisor:

S.No.	Name of the Research Scholar	Area of the work	Year of Registration	Registered University/Institute
1	V. Naveen Kumar	Acoustic Signal Analysis for Respiratory Diseases	2018	JNTUH, Hyderabad
2	B.B. Shabarinath	Classification & Detection of Breast Cancer	2019	NIT Warangal
3	K.Naresh	Design & Implementation of Approximate Neural Network circuit for image processing applications	2019	NIT, Meghalaya
4	K. Deepthi	Massive MIMO Detection Techniques	2021	NIT Warangal
5	K. Ram Mohan Reddy	Nano Materials	2021	NIT Warangal

One of the Scholars Vijaya Kumar Gurralla, Asst. Professor, ECE received an amount of Rs.440000/- for UGC Minor Research project titled “Development and Implementation of Atomized system for the detection of the sleep disorders using EEG Analysis.

6.6 . Patents

- One of the inventors of the patent granted by **Canada** (Application No. 3083639) titled **A Method and System for Analyzing Risk Associated with Respiratory Sounds.**
- One of the inventors of the patent granted by Indian Patent office titled **A Method and System for Analyzing Risk Associated with Respiratory Sounds (27/02/2019)**
- Patent Published by Indian Patent office Titled **Brain-Computer Interface-Based System and Method for Characterizing Behaviour State of a Subject (20-12-2019.)**
- Filed USA patent (Application No.17/081149) Method and System for Analysing Risk Associated with Respiratory Sounds.

6.7. Papers published in reviewed Journals:

S. No	List of Authors	Title of the Paper	Journal Name Vol.No. PP	ISBN/ ISSN No.	Impact Factor/ Citation Index	National/ International
1	Y.Padma Sai, K.SubbaRao C.Raghavendra Rao S.SitaJayalakhmi	EEG Analysis using Chi Square Association metric	IETE Journal of Research, 54(1) 2008, pp73-80	EID: 2-s2.0-72049133412	0.912, (Scopus)	National

	M.D.Koteshwar Rao					
2	Y. Padma Sai, K. SubbaRao, C.Raghavendra Rao S.SitaJayalakshmi	Detection of Epileptic Seizures using Wavelet Transform	International Journal of Biomedical Engineering and Consumer Health Informatics, 1(1), 2008, pp. 15-22	ISSN : 0973-6727	1.4	International
3	Y. Padma Sai, K. SubbaRao, C.Raghavendra Rao S.SitaJayalakshmi	Gamma Frequency Range Based EEG Analysis for Epilepsy Detection	International Journal of Medical Engineering and Informatics, Vol. 2, No. 1, 2010, pp 15-25.	Print ISSN: 1755-0653	0.832 (Scopus)	International
4	Y. Padma Sai K. SubbaRao C.Raghavendra Rao S.Sita Jayalakshmi G.Janardhan	DSP Implementation of EEG Analysis Using Discrete Wavelet Transform	International Journal of computational Intelligence and Healthcare Informatics, Vol. 2, No. 2, July-Dec. 2009, pp. 145-151.	ISSN : 0973-7413	0.0952	International
5	R. Divya Praneetha Y.Padma Sai Paleti Lakshmi Kanth	Transaction Level Modelling of High-Level DMA Controller	Journal of Computing, Vol. 3, Issue 7, July 2011, pp23-28	ISSN 2151-9617	0.533	International
6	L.V.Rajani Kumari Y.Padma Sai N.Balaji	Intelligent Infrared Target for Training Commandos to Combat Urban Terrorism	International journal of WSEAS Transaction on Signal processing, Vol. 7, Issue 3, July 2011, pp85-91	ISSN 1790-5052	1.9 (Scopus)	International
7	Y. Padma Sai K. SubbaRao C.Raghavendra Rao S.Sita Jayalakshmi T.Mahendra	Discrete Wavelet Transform Implementation on TMS320c6713 Processor for Epilepsy detection	National Journal Jointly Published by IEEE and Narosa Publishing Home, 2012, pp236-240		1.686	National
8	Y.Padma Sai Y.SwethaSree	Design and Implementation of VLSI Architecture for Mixed Radix FFT	International Journal of Scientific and Engineering Research, Vol. 3, Issue 11, Nov.2012	ISSN 2229-5518	3.2	International
9	Pawar Chander Y.Padma Sai	FPGA Implementation of Discrete Wavelet	International Journal of Engineering Research and	ISSN 2248-9622.	1.325	International

		Transform for Electroencephalogram Analysis	Applications (IJERA), Vol.3, Issue 1, Jan-Feb2013, pp.618-621.			
10	V. Priyanka, Y Padma Sai , U Malini and Pawar Chander	FPGA Implementation of Electrooculogram using Discrete Wavelet Transform	International Journal of Electronics and Communication Engineering. Vol. 5, No. 3 (2012), pp. 304-310	ISSN 0974-2166		International
11	V.Priyanka Brahmaiah L.DharmaTeja Y. Padma Sai	Study on Comparison of Various Multipliers	International Journal of Electronics and Communication Engineering & Technology. Vol. 4, Issue 5, September – October 2013, pp. 132-142.	ISSN 0976 – 6464(P), ISSN 0976 – 6472(O)	Impact Factor (2013): 5.8896 (Calculated by GISI). 1.2456	International
12	Padma Sai .Y, Rajesh.K	Design and realisation of Low leakage 1-bit CMOS based Full Adder Cells for Mobile Applications	IOSR Journal of VLSI and Signal Processing (IOSR-JVSP), Vol. 3, Issue 6 (Nov. – Dec. 2013), PP 51-57,	e-ISSN: 2319 – 4200, p-ISSN No. : 2319 – 4197.	1.458	International
13	Safia Shaik, Y.Padma Sai, V.Naveen Kumar	Development of Telugu Text to Speech System on OMAP 3530	IJRIT International Journal of Research in Information Technology. Vol. 1, Issue 12, December 2013, pp. 194-201	DOI: 10.1109/icitcs.2013.6717827	1.043	International
14	G.Vijaya Kumar Y.Padma Sai V.Naveen Kumar A.Prathibha	Hand Gesture Recognition Using Accelerometer	International Journal of Electrical Electronics and Communication (IJEEC), Vol.5, Issue 30 pp.331-334, Sep-2014	2048-1069	3.86	International
15	Nageshwar V, Y.Padma Sai	Detection of Epileptic Seizures using LabVIEW	International Journal of Advancements in Electronics and Electrical Engineering – IJAEEE, Vol.3, Issue-1 pp.112 – 116, Jan 2014.	ISSN 2319 – 7498		International
16	V. Nageshwar, Y.Padma Sai	Design of Brain Machine Interface through LabVIEW'	National Journal of Instrumentation Society of India (ISOI), Vol. 43, Issue No.3 Sep 2014, pp3-8		1.869	National

17	G.Vijaya Kumar Y.Padma Sai V.Naveen Kumar A.Prathibha	Hand Gesture Recognition Using Accelerometer for Disabled	International Journal of Science, Engineering and Technology Research (IJSETR), Vol. 3, Issue 12, Dec. 2014,pp. 3478- 3481	ISSN 2278 – 7798	2.753	International
18	K.Avinash, Y.PadmaSai V.Naveen Kumar	Implementation of Text to Speech Synthesis using HMM	International Journal of Science and Research (IJSR), Vol. 4, Issue 3, March- 2015.	ISSN (online) : 2319- 7064	4.438	International
19	Y.PadmaSai V.Naveen Kumar, N. Mohan Krishna	On-Board Camera Based on Pedestrian Detection system	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Vol. 4, Issue 3, March-2015	ISSN (P) : 2320 – 3765 ISSN (O) : 2278 – 8875	1.686	International
20	V.Naveen Kumar, Y Padma Sai, C Om Prakash	Design and Implementation of Silent Pause Stuttered Speech Recognition System	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 4, Issue 3, March-2015	ISSN (P) : 2320 – 3765 ISSN (O): 2278 – 8875	1.686	International
21	L.V.Rajani Kumari , Y.Padma Sai, N.Balaji, K.Viswada	FPGA Based Arrhythmia Detection	3rd International Conference on Recent trends in Computing- 2015 (ICRTC)-2015, Published by Elsevier B.V in Procedia Computer Science Aug.2015, Vol.57,pp. 970-979	(Availab le online at www.sci encedire ct.com	Google Scholar	International
22	G.Surekha, N.Balaji ,Y.Padma Sai, R.Prashanth Kumar	Design of Low Power 7T SRAM Cell using Low-Vth Transistor	International Journal of Advanced Research in Electronics and Communication Engineering Vol.4, Issue 9, Sep.2015, pp2296-2302	ISSN:22 78-909X	Scopus	International
23	Y. Padma Sai, N. Suma Jyostna, L. V. Rajani Kumari, S. V. N Rao,	Analysis of Cough Sounds for Diagnosis of Respiratory Diseases	7th IEEE International Advance Computing Conferenc e (IACC-2017)	(ISBN No: 978- 93-5267- 908-9)	Google Scholar	National

	V. Naveen Kumar					
24	L.V. Rajani Kumari, Y. Padma Sai, N. Balaji,	Ardino Based Abnormal Heart Rate Detection and Wireless Communication	International Journal on Cybernetics & Informatics (IJCI), Vol. 5, No. 4 August 2016	DOI:10.5121/IJC I2016.5406	Google Scholar	International
25	L. V. Rajani Kumari, Y. Padma Sai, N. Balaji R Gowri sree	Comparison of Artificial Neural Networks for Cardiac Arrhythmia Classification	International Journal of Advance Engineering and Research Development, Vol. 4, Issue 10, October - 2017,	2348-4470(O) 2348-6406(P)	4.72, Google Scholar	International
26	P. Shubha Deepti, S.V.N. Narayana Rao, V. Naveen Kumar, Y. Padma Sai	Expert System using Artificial Neural Network for Chronic Respiratory Diseases	International Journal of Current Engineering and Scientific Research, Vol.4, Issue 9, September 2017	,2393-8394	0.9 Google Scholar	International
27	L.V. Rajani Kumari, Y. Padma Sai, N. Balaji, R. Gowrisree	Real-Time Telemonitoring of Student's Stress Levels using HRV Analysis	CiiT International Journal of Digital Signal Processing,	(P): ISSN 0974 – 9705 & (O): ISSN 0974 – 9594	Google Scholar	International
28	G. Surekha, N. Balaji Y. Padma Sai	Design of Low-Power Binary Content Addressable Memory for Future Nanotechnologies	Microelectronics, Electromagnetics and Telecommunications Proceedings of ICMEET 2017 published in Lecture Notes in Electrical Engineering, Springer, vol.471 ,PP 343-348	ISBN 978-981-10-7328-1 ISBN(eBook) 978-981-10-7329-8	Google Scholar	International
29	V. Priyanka Brihmaiah, Y. Padma Sai, M.N. Giri Prasad	Implementation and analysis of an electrooculography (EOG) signal on FPGA	International journal of advanced engineering research and technology, Vol.5, Issue 11, PP.901-907 November 2017	2348-8190	Google Scholar	International
30	L. V. Rajani Kumari, Y. Padma Sai, N. Balaji	SVM to Classify Mental Stress in Driver's Using HRV Analysis	CiiT International Journal of Automation and Autonomous	ISSN: 0974 – 9551	Google Scholar	International

			System, Vol 9, No 9, November -Dec. 2017			
31	V. Nageshwar, P. Prashanth Reddy and Y. Padma Sai	Model based Spike detection of Epileptic EEG data by using LabVIEW	Journal of Emerging Technologies and Innovative Research (JETIR) December 2017, Vol. 4, Issue 12, PP.300-304	ISSN-2349-5162	Google Scholar, 5.87	International
32	G.Vijaya Kumar, Y.Padmasai, K.Padm araju	Artifact Removal from Sleep Hipnograms using complete Ensemble Empirical Decomposition with Adaptive Noise	IJST Volume-10, Issue-47 Dec, 2017	0974-6846	Wed Of Science, Google Scholar	International
33	V.Priyanka Brahmaiah, Y.Padma Sai, M.N.Giri Prasad	Performance and Analysis of EOG Signal through Eye Movements	Jour of Adv Research in Dynamical & Control Systems, Vol. 10, 14-Special Issue, 2018	ISSN 1943-023X	Google Scholar	International
34	V. Nageshwar, and Y. Padma Sai	A Novel Method for Analysis and Classification of EEG Signals using Empirical Mode Decomposition and Hilbert Marginal Spectrum	Journal of Engineering Technologies and Innovative research Volume:5, Issue:10, ISSN -2349-5162, Page no.181-189, October 2018	2349-5162	2.5	International Open Access Journal
35	L. V. Rajani Kumari, Y. Padma Sai, N. Balaji	Performance Evaluation of Neural Networks and Adaptive Neuro Fuzzy Inference System for Classification of Cardiac Arrhythmia	International Journal of Engineering & Technology, 7 (4.22) (2018) 250-253	e-ISSN : 0975-4024 p-ISSN : 2319-8613		International
36	G.Vijaya Kumar, Y.Padmasai, K.Padm araju	Wavelet Domain Extraction of Features from single channel Sleep EEG	IJITEE Volume-8 Issue-4S2 March, 2019	2278-3075	5.15	International
37	G.Surekha, N. Balaji and Y.Padma Sai	PVT Variations and Process Corners for a Low Leakage Power 7T SRAM cell	International Journal of Research In Electronics and Computer Engineering, Vol. 7	SSN:2393 9028 (PRINT) ISSN: 2348-2281		International

			Issue 2,PP:2771-2774, (ONLINE) April-June 2019,			
38	Nageshwar V, Y.Padma Sai and .K.Subba Rao,	Epileptic Seizure Detection using Orthogonal Local Preserving Projection and K-Nearest Neighbours Classifier	International Journal of Control and Automation, Vol. 12, No. 5, (2019), pp. 299-313.			International
39	Nageshwar V, Y.Padma Sai and K.Subba Rao,	Epilepsy detection in EEG using firefly-based feature selection and random forest classifier	International Journal of Control and Automation, Vol. 12, No.5, (2019), pp. 314-326			International
40	Gowri sree R , Shubha Deepti P, Baswaraj M , Narayana Rao S , Y. Padma Sai, Naveen Kumar V and Sai Praveen Haranath,	Cough sound analysis and objective correlation with spirometry and clinical diagnosis	Informatics in Medicine Unlocked 19 (2020) 100319, Elsevier Journal			International
41	Konda Nandini, V. Naveen kumar, Y. Padma Sai,	Real Time Traffic Signs and Obstacle Detection in Self Driving Car	International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9 Issue-6, April 2020	ISSN: 2278-3075	Retrieval Number: D1936029420/2020©BE IESP DOI: 10.35940/ijitee.D1936.04 9620, Published By: Blue Eyes Intelligence Engineering & Sciences Publication	
42	Pallavi Polsani, V. Priyanka B., Y. Padma Sai	Design & Verification of Serial Peripheral Interface (SPI) Protocol,	J-International Journal of Recent Technology and Engineering (IJRTE), Volume-8 Issue-6, March 2020,	ISSN: 2277-3878,		
43	G.Vijaya Kumar, Y.Padma Sai, K.Padmaraju	A Novel Single Channel EEG based Sleep Stage Classification using SVM	IJBET In press	1752-6426	In press	International
44	V.Priyanka B, Y.Padma Sai M.N.Giri Prasad	A New Framework for Recognizing Normal and Epileptic Seizure from Eye Movement Signals	International Information and Engineering Technology Association (IIETA)	ISSN:07 65-0019 (print) 195 8-5608 (online),		International

		using Genetic Based Convolutional Neural Network	Vol. 37, No. 3, pp. 493-501			
45	Srihari M, V. Priyanka B, Y. Padma Sai	Mayday, A Women Safety Device	American Scientific Publishers (ASP) Vol. 10, 14-Special Issue Pg No: 2039-2045 March 2020	ISSN 1943-023		International
46	Pallavi P, V. Priyanka, Y. Padma Sai	Design and Verification of SPI Protocol	International Journal of Recent Technology and Engineering, Vol. 8, Issue 6 March 2020,	ISSN:22 77- 3878		International
47	Pradeep Kumar, Subodh Srivastava, Y. Padma Sai	Reformation of Modified Complex Diffusion Method For Removal of Rician Noise From Breast MRI Images	Revue d'Intelligence Artificielle 28-06-2020	ISSN 1958-5748		International
48	Pradeep Kumar, Subodh Srivastava, Ritesh Kumar Mishra, Y Padma Sai	End-to-end improved convolutional neural network model for breast cancer detection using mammographic data, Defense Modeling and Simulation: Applications, Methodology, Technology	SCIE P.No:1-10, 08-12-2020	1548-5129		International
49	Nageshwar V, Y.Padma Sai	Feature extraction method for epileptic seizure detection based on cluster Coefficient distribution of complex network	National Symposium on Instrumentation (NSI-42) 28th -29th Dec 2020			International
50	Vijaya Kumar G, Padma Sai.Y,	Detection of Sleep Apnea Based on the Analysis of Sleep	Traitment Du Signal 2 nd March 2021			International

	Padmaraju K	Stages Data Using Single Channel EEG				
51	L.V.Rajani Kumari, Y.Padma Sai, N.Balaji	R-Peak Identification in ECG Signals using Pattern- Adapted Wavelet Technique	IETE Journal of Research, 8 th March, DOI: 1080/03772063.2021.18932292021			International
52	Mohebbanaaz, L. V. Rajani Kumari , Y. Padma Sai	A review on arrhythmia classification usinf ECG signals	IEEE SCEECS 2020 https://ieeexplore.ieee.org/abstract/document/9087124			International
	P. S. S. Sree Dhruti, L. V. Rajani Kumari, and Y. Padma Sai	An Inference Engine Integrated with Health Parameters for Medical Web Platform	Intelligent Systems (Proceedings of ICMIB 2020) Springer , 20-04-2021,PP: 373-381			International
53	Vijaya Kumar G, Padma Sai Y, Padmaraju K	Detection of Sleep Apnea Based on the Analysis of Sleep Stages Data Using Single Channel EEG	Traitement du Signal, Vol:38 Issue:2 P.No:431-436, 30-04-202	ISSN 0765-0019(Print)		International
54	Mohebbanaaz, L. V. Rajani Kumari Y. Padma Sai	Nearest Neighbor Classifier,	Intelligent Systems (Proceedings of ICMIB 2020) Springer 20-04-2021 PP: 349-359	ISSN No.:2367-3370	Scopus	International
55	P. S. S. Sree Dhruti, L. V. Rajani Kumari and Y. Padma Sai	An Inference Engine Integrated with Health Parameters for Medical Web Platform	Intelligent Systems (Proceedings of ICMIB A Novel Single Channel EEG based Sleep Stage Classification using SVM 2020) Springer , 20-04-2021,PP: 373-381	ISSN No.:2367-3370	Scopus	International

56	Mohebbanaaz, L. V. Rajani Kumari Y. Padma Sai	Cognitive Assistant DeepNet Model for Detection of Cardiac Arrhythmia	Biomedical Signal Processing and Control Volume 71, Part B, 2022,103221, Jan 2022.	ISSN: 1746- 8094,	SCI	International
57	Mohebbanaaz, L. V. Rajani Kumari Y. Padma Sai	A new transfer Learning approach to detect cardiac arrhythmia from ECG signal.	Signal, Image, and Video Processing Published online 18 February 2022	ISSN:18 63-1711,	SCI	International
58	Vijaya Kumar G, Padma Sai Y, Padmaraju K	A machine learning approach to monitor water quality in Aquaculture	International Journal of Performability in Engineering, Volume 16, Issue 12, Dec/2020&pp:1845- 1852;	0973- 1318	1.2	International
59	Vijaya Kumar G, Padma Sai Y, Padmaraju K	Advanced Deep Learning Model for Sleep Stages Classification Using Single Channel EEG	Design Engineering P:9108–9118 Issue-8 2021	119342.	1.41	International
60	Vijaya Kumar G, Padma Sai Y, Padmaraju K	Sleep stage-based sleep disorder detection using single- channel electroencephalogram	International Journal of Nanotechnology Vol:19, Issue: 6-11, Pp:1075-1090 2022	ISSN online 1741- 8151 ISSN print 1475- 7435	0.346 (5 Year Impact Factor 0.511) JCI 0.05 CiteSco re 0.9 (2022)	International

6.8. Papers presented at National / International Conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Data Acquisition System for the analysis of sleep disorders	International Conference on Systemics, Cybernetics and Informatics, Pentagram Research Centre, Hyderabad	International	4-8th January 2006

2	EEG analysis using Principal Component Approach	14th IEEE International conference on Electronics, Circuits and Systems, Marrakech, Morocco	International (Scopus)	11-14th December 2007
3	Detection of Epileptic Seizures using Wavelet Transform	International symposium on Global Trends in Biomedical Informatics Research, Education and Commercialization, Chennai	International	11-12th January 2008
4	APT Wavelet Transform for spike detection in EEG signals	IEEE Conference on AI Tools in Engineering, Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women, Pune	International	6 – 8th March 2008
5	Discrete Wavelet Transform Implementation on TMS320c6713 Processor for Epilepsy detection	International conference on Electronic Design and Signal Processing (ICEDSP-09) MIT, Manipal	International	10th to 12th December 2009
6	Linear Prediction Modelling for the Analysis of the Epileptic EEG	International Conference on Advances in Computer Engineering (ACE-2010) Bangalore	International	June 21-22, 2010
7	ECG Signal Processing Using LabVIEW	International Conference on Bio-Signals, Images and Instrumentation	International	March 14-16th 2013
8	On-Board Wireless Data Acquisition System and Telemetry,	2013 International Telemetry Conference (ITC 2013), Bally's, Las Vegas, Nevada, USA	International (Scopus)	October 21 – 24, 2013
9	Detection of Epileptic Seizure using LabView	International Conference on Advances in computing, Electronics and Communication ACEC-2013, at Zurich, Switzerland	International	Oct. 12-13th, 2013
10	Development of telugu text to speech system using OMAP 3530	2013 International Conference on IT Convergence and Security, ICITCS 2013, Article number 67178272013 3rd International Conference on IT Convergence and Security, ICITCS 2013; Macau; China; 16 December 2013 through 18 December 2013; Category number CFP1391W-ART; Code 102708.	International (Scopus)	December 2013
11	Telugu Text to Speech System for Mobile Based Systems	Fifth International Conference on Recent Trends in Information, Telecommunication and Computing – ITC 2014 is organised by the Association of Computer Electronics and Electrical Engineers (ACEEE) and sponsored by the Indian Society for Technical Education (ISTE), Chandigarh	International	Mar 21-22, 2014
12	3-Channel ECG Analyzer	International Conference on Communication and Computing (ICC – 2014), ICC-2014 is published by Elsevier	International	12- 14th June 2014

13	Speech Emotion Recognition by MFCC Coefficients and Support Vector Machines	First International Conference on Large Area Flexible Microelectronics ILAFM2014 organized by R.V.College of Engineering, Bengaluru	International	18-20th Dec.2014
14	FPGA Based Arrhythmia Detection,”	3rd International Conference on Recent trends in Computing-2015 (ICRTC)-2015	International (Scopus)	12th-13th March-2015
15	Low Leakage CNTFET Full Adders	IEEE Global Conference on Communication Technologies (GCCT-2015)	International (Scopus)	23-24th April 2015
16	ECG Monitoring system using ARM9 Web-Server	IEEE Global Conference on Communication Technologies (GCCT-2015)	International (Scopus)	23-24th April 2015
17	Multi-Channel Data Acquisition System for Electroencephalogram Using LabVIEW	National Symposium on Instrumentation (NSI-40). Organized by ISOI, Bangalore and Dept. of EIE, Kumaruguru College of Engineering, Coimbatore, October 30th & 31st 2015, page no.156.	International	October 30th & 31st 2015
18	Spike Detection in Electroencephalogram (EEG) Using Arduino UNO	2015 International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT), 978-1-4673-9825-1/15/\$31.00 ©2015 IEEE, Noorul Islam University, Kumara coil, Kanyakumari Dist., Tamilnadu, Dec. 18th & 19th 2015, page no. 652-654.	International (Scopus)	December 18th & 19th 2015
19	ECG Signal Preprocessing based on Empirical Mode Decomposition	International Conference on Microelectronics Electromagnetics and Telecommunication (ICMEET-2015), 18th -19th December 2015 . Published by Springer India in Lecture Notes in Electrical Engineering 372, DOI 10.1007/978-81-322- 2728-1_64,673-779	International (Scopus)	18th -19th December 2015
20	Implementation of speech based stress level monitoring System	4th International Conference on Computing, communication and sensor Network (CCSN-2015),	International	December 24th-25th, 2015
21	Cough classification tool for early detection and recovery monitoring of tuberculosis and asthma	4th International Conference on Computing, communication and sensor Network (CCSN-2015),	International	December 24th-25th, 2015
22	Performance Trace Suite Reduction using Clustering Techniques	4th International Conference on Computing, communication and sensor Network (CCSN-2015),	International	December 24th-25th, 2015

23	Design of Data Acquisition System for Remote EEG System and EEG Analysis in LabVIEW	6th IEEE International Advance Computing Conference (IACC-2016) Organized by IEEE Computer Society – India Council & S R K R Engineering College, Bhimavaram, India	International	February 27-28, 2016
24	Stability Analysis of 7T-SRAM Cel	10th International Conference on Intelligent Systems and Control (ISCO 2016), organized by Karpagam college of Engineering, Coimbatore, 7-8th Jan. 2016, Proceedings of the 10th International Conference on Intelligent Systems and Control, ISCO 2016 31 October 2016, Article number 7727138 10th International Conference on Intelligent Systems and Control, ISCO 2016; Coimbatore; India; 7 January 2016 through 8 January 2016; Category number CFP1687T-ART; Code 124691.	International (Scopus)	January 2016
25	Design of 2nx2mx1 Random Access Memory using Reversible Logic	2016 IEEE International Conference on Recent Trends in Electronics, Information and Communication Technology, RTEICT 2016 – Proceedings 5 January 2017, Article number 7807961, Pages 913-917 1st IEEE International Conference on Recent Trends in Electronics, Information and Communication Technology, RTEICT 2016; Sri Venkateshwara College of Engineering (SVCE) Campus Bangalore; India; 20 May 2016 through 21 May 2016; Category number CFP16F77-ART; Code 125896.	International (Scopus)	May 2016
26	Design and Implementation of High Performance MIL-STD-1553B Bus Controller	7th IEEE International Advance Computing Conference (IACC-2017, VNRVJIET, Hyderabad (DOI:10.1109/IACC.2017.98))	International (Scopus)	5-7th Jan-2017
27	Design and Implementation of Remote Terminal for MIL-STD-1553 B			
28	Aadhaar Based Biometric Attendance System Using Wireless Fingerprint Terminals			
29	Data Acquisition System Of Electro oculogram			

30	Design and implementation of low-power MIL-STD-1553B bus controller”,	Lecture Notes in Electrical Engineering Vol.434, 2018, Pages 183-189, 2nd International Conference on Micro-Electronics, Electromagnetics and Telecommunications, ICMEET 2016; Visakhapatnam; India; 6 January 2017 through 7 January 2017; Code 197979	International	7th January 2017
31	EEG Spike detection using Wavelet Transform	Medical Council of India & Indian Council of Medical Research (Meditel-06) , Centre for Digital Health, Amrita Institute of Medical Sciences, Kochi	National	24-26th November 2006
32	Analysis of EEG using Maximum Likelihood Estimate	IETE Zonal seminar on “Emerging and Converging Communication Technologies” (SECT-07), The Institute of Electronics and Telecommunication Engineers, Visakhapatnam centre, Visakhapatnam	National	11th February, 2007
33	EEG analysis by Evaluating Performing Index	National conference on Bio-Medical Engineering, Manipal Institute of Technology, Manipal	National	4-6th October 2007
34	FPGA Implementation of Triple Data Encryption Algorithm for Data Security	National Conference on Advances in Signal Processing (NCASP – 09) Andhra University, Visakhapatnam	National	20-21 November 2009
35	Design of Brain –Machine Interface Through LabVIEW	National Symposium on Instrumentation – NSI-38 Organized by ISOI, Bangalore and Dept. of IT, E&C, E&E, B.V.B.CET, Hubli, Karnataka, page no.178. Oct-13	National	October - 2013
36	Street Light Data Acquisition using VLSI Based Object Recognition	IEEE International Conference on Computational intelligence and Computing Research, (DOI:978-1-5090-0612-0/16 IEEE Digital Library)2016 IEEE International Conference on Computational Intelligence and Computing Research, ICCIC 20164 May 2017, Article number 79196882016 IEEE International Conference on Computational Intelligence and Computing Research, ICCIC 2016; Agni College of Technology, Chennai; India; 15 December 2016 through 17 December 2016; Category numberCFP1620J-PRT; Code 127661	International (Scopus)	December 2016
37		IEEE(EDS) Kolkata chapter Sponsored 4th International Conference on	International	24-25 Dec 2015

	An Interactive System for Paralyzed Patients Based on Eye Blink	Computing, Communication and Sensor Network		
38	“Street Light Data Acquisition using VLSI Based Object	IEEE International Conference on Computational intelligence and Computing Research,	Recognition, (DOI:978-1-5090-0612-0/16 IEEE Digital Library)2016 IEEE International Conference on Computational Intelligence and Computing Research, ICCIC 20164 May 2017, Article number 79196882016 IEEE International Conference on Computational Intelligence and Computing Research, ICCIC 2016; Agni College of Technology Old Mahabalipuram Road Thalambur, Chennai; India; 15 December 2016 through 17 December 2016; Category number CFP1620J-PRT; Code 127661	
39	Wavelet Domain Extraction of Features from single channel Sleep EEG	International Conference on Advances in Signal Processing, Power, Embedded, Soft Computing, Communication and Control Systems (ICSPECS-2019)	International	11-12 Jan 19
40	Detection of Epileptic Seizures in Long-Term Human EEG by Improved Linear Discriminant Analysis	4th International Conference on Advanced Informatics for Computing Research	International	26th Dec 2020
41	A Review on Arrhythmia Classification using ECG Signals	2020 IEEE International Students’ Conference on Electrical, Electronics and Computer Science (SCECS 2020)	International	22nd & 23rd Feb 2020
42	A Low Leakage Power Binary CAM design using increased substrate bias 7T SRAM cell	International Conference on Advances in Communications, Computing and Embedded Systems (ACCES-2020) 13:978-81-930222-9-0	International	18-19th Sep.2020

43	Designing of 64 K Bit SRAM Using Increased Substrate Bias 7T SRAM cell	International Conference on Advances in Communications, Computing and Embedded Systems (ACCES-2020) 13:978-81-930222-9-0	International	18-19th Sep.2020
44	A review on analysis of sleep EEG signals	4th International Conference on Electronics, Communication and Aerospace Technology (ICECA2020)	International	4th International Conference on Electronics, Communication and Aerospace Technology (ICECA2020)
45	Optimal Bayesian Estimation Frame work for Reduction of Speckle Noise from Breast Ultrasound Images	International Conference on Innovation in Cyber Physical Systems(ICIPS-2020)	International	22nd to23rd October2020
46	. Removal of Noise from ECG Signals using Residual Generative Adversarial Networks.	UPCON 2021 https://ieeexplore.ieee.org/abstract/document/9667595	International	Nov 18th 19th
47	Automated Detection of Cardiac Arrhythmia using Recurrent Neural Networks.	ICRAIE 2021 https://ieeexplore.ieee.org/document/9703995	International	Dec 1st 2nd
48	Infection Segmentation of Leaves Using Deep Learning techniques to enhance crop productivity in smart agriculture	2021 6th International Conference on Signal Processing, Computing and Control (ISPCC)	International	07-09/10/2021
49	Speech Processed Public Addressing System	ICASPACE 2021	International	07-09/10/2021
50	EEG Based Decision Selection System Using Deep Learning	2023 4th International Conference for Emerging Technology (INCET) Belgaum, India.	International	May 26-28, 2023

6.9. Sponsored research Projects:

S. No	Title	Agency	Period	Grant Amount (Rs.)	Ongoing /Completed
1	Staff Development Program on Real Time Signal & Image Processing	AI CTE	1 Year (06- 18 June 2011)	4.86 Lakhs	Completed
2	Industry Institute Partnership Cell	AI CTE	2010-2012	10Lakhs	Completed
3	Upgradation Advanced Digital Signal Processing and Processors	AI CTE	2012-13	9.0Lakhs	Completed

4	Faculty Development Program on “VLSI Design”	AI CTE	2012-13	4.91Lakhs	Completed
5	Faculty Development Program on Real Time Embedded System Development	AI CTE	2012-13	4.80Lakhs	Completed
6	Upgradation of VLSI and ECAD Lab	AI CTE	2012-13	9.45Lakhs	Completed
7	Travel Grant sanctioned by Science and Engineering Research Board (SERB)	DST	2013-14	1.19Lakhs	Completed
8	Travel Grant sanctioned by University Grants Commission	UGC	2013-14	But not utilized	Completed
9	Design and Development of System for ECG Waveform Characterization and Processing	AICTE	2013-2016	8.25Lakhs	Completed
10	Virtual Assistant for Mobile devices using Voice and Gesture Technologies	MieTy	2013-2018	18.14Lakhs	Completed
11	Digital Health Advisory System for Chronic Respiratory Diseases	BIRAC – Biotechnology Ignition Grant(BIG) Scheme	20-12-2018	45.6 Lakhs	Completed
12	Cough and Wheeze analyzer for Respiratory Digital Health Services	Biotechnology Industry Research Assistance Council (BIRAC – Soch)	19-03-2018	15.00 Lakhs	Completed
13	Digital Health Advisory System for Chronic Respiratory Diseases	IISc - MSME Center of Excellence	29-01-2018	6.75	Completed
14	Upgradation of Advance Embedded Systems and IoT laboratory	AICTE	04.01.2019.	15 .0	Completed
15	4 Day-Summer School on Internet of Things for Biomedical and Healthcare Applications	IEEE SPS	14-11-2019	\$5000	Completed
16	Digital Health Startup Grant from Bioincubator at C-CAMP. Bioincubator at C-CAMP,a G2C Incubation Centre under the Ministry of Electronics & IT, Govt of India’s TIDE 2.0 Scheme	Salcit Technologies		7 Lakh	Completed
17	IEEE SPS Hybrid Seasonal School on Recent Advances in Artificial Intelligence for Signal Processing,28-31 December 2021	IEEE SPS		\$3000	Completed

18	IEEE SPS SB Initiative on Latest Trends in ML for SP Applications 10–12 August 2022	IEEE SPS		\$5000	Completed
19	IEEE Summer School on Nanotechnology Training on Fabrication and Characterization of Nanomaterials from 16-19 November 2022	IEEE NTC		\$3350	Completed

6.10 Consultancy Projects:

S. No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed
1	Design and Development of Mill Standard 1553IP Core	M/s Ananth Tech Pvt. Ltd. Hyderabad	2 Year	Rs.4.24 Lakhs	Completed
2	Design Of an FFT/IFFT IP-Core	MMRFIC Technology Pvt Ltd	1Year	Rs.2 Lakhs	Ongoing
3	Frequency band analysis of acoustic signals for health care”	Salcit Technologies Pvt.	2Year	Rs.10,00,000/	Ongoing

7. Motto: Let us make things happen instead of waiting for things to happen.